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						Application	n Number	09/110,717		
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Drew line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (Modified)

Substitute for form 1449B/PTO	Compl	lete if Known
Substitute for form 1443bit 10	Application Number	09/110,717
INFORMATION DISCLOSURE	Filing Date	July 7, 1998
STATEMENT BY APPLICANT	First Named Inventor	Mills
	Group Art Unit	1745
(use as many sheets as necessary)  Sheet 2 of 5	Examiner Name	Kalafut
Sheet 2 of 5	Attorney Docket Number	62-226-8AC6
		ATTACH TO#26

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
ax		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
SX		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
OK		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
O) K	-	Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." J. Appl. Phys., Vol 74, No 11, December 1993.	
OIC		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731.	
OX		Associated Press. "Physicist: Utah Cold-Fusion Gear Doesn't Work." <i>The Washington Post</i> , March 29, 1990, p. A3.	
St		Rogers. "Cold Fusion Reaction Products and Their Measurement." Journal of Fusion Technology, Vol 9, No 4, 1990.	
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OIPE		PTO/SB/08B (Modified)
Substitute for form 1449B/PTO	Compl	ete if Known
ليب	Application Number	09/110,717
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STATEMENT BY APPLICANT	First Named Inventor	Mills
	Group Art Unit	1745
(use as many sheets as necessary)	Examiner Name	Kalafut
Sheet 4 of 5	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
OX		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted					
OK		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted					
60K	•	R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.					
OK	-	R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.					
OL		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.					
GK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.					
OX		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted.					
OK		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.					

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

OIPE		PTO/SB/08B (Modified)
Substitute for form 1449B/PTQ	Compl	ete if Known
Substitute for form 1443577 1 5 2002	Application Number	09/110,717
INFORMATION DESCRIPTION	Filing Date	07/7/1998
STATEMENT BY APPLICANT	First Named Inventor	Mills
	Group Art Unit	1745
(use as many sheets as necessary)	Examiner Name	Kalafut
Sheet 3 of 5	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CX.		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	
SK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.	
OK.		R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.	
OK		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.	
AK,		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.	
OK		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.	
OK.		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 <sup>th</sup> Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.	
OX		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.	
Examiner Signature		Date Considered 10/3/02	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449B/PTO	Compl	ete if Known
FEB 1 5 2000	Application Number	09/110,717
INFORMATION DISCLOSURE	Filing Date	07/7/1998
STATEMENT BY APPLICANT	First Named Inventor	Mills
	Group Art Unit	1745
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Sheet 5 of 5	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
A		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.			
OK.		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.			
OX		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum- Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.			
SK		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.			
6%		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.			
ØK		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.			
SK		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."  ###			
OX		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon. Com.			
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet	1	of	3	Attorney Docket Number	62-226-	-8AC6

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
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Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
ΰK		R. Mills, J. Sankar, P. Ray, B. Dhandapani, J. He, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Single Crystal Diamond Films", Chemistry of Materials, submitted.	PATE				
&X_		R. Mills, P. Ray, R. M. Mayo, "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser", IEEE Transactions on Plasma Science, submitted.	DATA exkum				
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "New Energy States of Atomic Hydrogen Formed in a Catalytic Helium-Hydrogen Plasma", IEEE Transactions on Plasma Science, submitted.	Pole				
874		R. Mills, P. Ray, R. Mayo, "Water-Plasma Medium for a Hydrogen Laser", J of Phys. Chem. Lett., submitted.	agasan				
DY		R. Mills, P. Ray, R. Mayo, "The Potential for an Extremely Versatile Hydrogen Water-Plasma Laser", Phys. Rev. E, submitted.	Cuption				
<u> </u>	,	R. L. Mills, B. Dhandapani, J. He, J. Sankar, "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding", Diamond and Related Materials, submitted.	IH e W/Can				
8X		R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry", Thermochimica Acta, submitted.	MOTE				
OK_		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride", Materials Characterization, submitted.	Chram				
DIC	R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride", J of Materials Research, submitted.						

Signature Date Considered Z/28/ 3-3

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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SEP 1 3 2000	3 4 57			APPLICANT	First Named Inventor	Mills	
A PRADEMA					Group Art Unit	1745	
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	Sheet	2	of	3	Attorney Docket Number	62-226-8AC6	
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7002 V			
8K		R. L. Mills, B. Dhandapani, J. He, J. Sankar, "Synthesis of Diamond Films from Solid Carbon", Diamond and Related Materials, submitted.	ME CUKANA			
OX	-	R. Mills, P. Ray, R. M. Mayo, "The Potential for a Hydrogen Water-Plasma Laser", Applied Physics Letters, submitted.	artim			
Q)C		R. L. Mills, "Classical Quantum Mechanics", Physica Scripta., submitted.	Ofto			
OK	-	R. L. Mills, P. Ray, "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," Quantitative Spectroscopy and Radiative Transfer, submitted.	OFFO			
& K	_	R. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications", 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), in press.	2 Atema			
OX		R. Mills, P. Ray, R. Mayo, "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser", J Vac. Sci. and Tech. A, submitted.	DATE			
STK		R. L. Mills, P. Ray, B. Dhandapani, J. Dong, S. Hicks, M. Nansteel, X. Chen, J. He, R. Mayo, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen, Fuels and Energy, submitted.	DATE			
SOK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", J. Phys. Chem. Lett., submitted.				
SOK		R. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium", Foundations of Science, submitted.	upen			
Examiner	1					
Signature		Date Considered 2/21/63				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

Complete if Known Substitute for form 1449B/PTO 09/110,717 **Application Number** Filing Date July 7, 1998 INFORMATION DISCLOSURE First Named Inventor STATEMENT BY APPLICANT Mills Group Art Unit 1745 **Examiner Name** Kalafut (use as many sheets as necessary) 3 of **Attorney Docket Number** 62-226-8AC6

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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	CE/L
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	\$002 \$\frac{1}{3}\$
OK		R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions", New Journal of Physics, submitted.	lote within
8	-	R. Mills, P. Ray, R. Mayo, "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts", IEEE Transactions on Plasma Science, submitted.	RATE
64	,	R. L. Mills, P. Ray, J. Dong, M. Nansteel, B. Dhandapani, J. He, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Molecular Hydrogen", Vibrational Spectroscopy, submitted.	Me
0)		R. L. Mills, P. Ray, E. Dayalan, B. Dhandapani, J. He, "Comparison of Excessive Balmer α Line Broadening of Inductively and Capacitively Coupled RF, Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts", IEEE Transactions on Plasma Science, submitted.	DHE WELLER
SK.	/	R. Mayo, R. Mills, M. Nansteel, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity", IEEE Transactions on Plasma Science, submitted.	Whole
5/6		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	lote
0)X		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts", International Journal of Engineering Science, submitted.	lette

Examiner Signature Date Considered 2003

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